

1337 S. 46th Street Building 201 Richmond, CA 94804

Date: 2/13/2012

Subject: Analytical Testing Results - Project R33911

SDG: 12034C

From: Brenda Bettencourt, Director

EPA Region 9 Laboratory

MTS-2

To: Richard Fetzer

US EPA Region 3, Eastern Response Branch

3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Dissolved Hydrocarbon Gases by GC

DIM0186127 DIM0186127



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer US EPA Region 3, Eastern Response Branch SDG: 12034C

Project Number: R33911 **100 Gypsum Road Reported:** 02/13/12 14:59

Project: Dimock Residential Groundwater Stroudsburg PA, 18360

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
HW42	1202011-01	Water	02/02/12 10:28	02/03/12 10:00
HW46	1202011-02	Water	02/02/12 11:39	02/03/12 10:00
HW46-P	1202011-03	Water	02/02/12 11:24	02/03/12 10:00
TB15	1202011-04	Water	02/02/12 07:50	02/03/12 10:00
FB08	1202011-05	Water	02/01/12 14:45	02/03/12 10:00
HW34a	1202011-06	Water	02/01/12 15:47	02/03/12 10:00
HW34a-P	1202011-07	Water	02/01/12 15:55	02/03/12 10:00
TB14	1202011-08	Water	02/01/12 10:10	02/03/12 10:00
FB09	1202011-09	Water	02/02/12 10:15	02/03/12 10:00
HW42z	1202011-10	Water	02/02/12 10:29	02/03/12 10:00
TB16	1202011-11	Water	02/02/12 07:57	02/03/12 10:00

SDG ID 12034C

Small amounts of methane were detected in the method blanks, field blanks and trip blanks. The highest level for a blank in this delivery group (received 2/3/12) was 6.2 ug/L in sample 1202011-11 (TB16). Reported methane values less than or equal to 31 ug/L in field samples are flagged as estimates due to possible contamination.

Work Order(s)

1202011

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DIM0186127 DIM0186128



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Sample Results

Analyte		Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method			
Lab ID:	1202011-01							Water - Sampled: 02/02/12 10:28					
Sample ID:	HW42									Gases by RSK-175			
Methane				B1, J	1.2	ug/L "	B2B0015	02/03/12	02/06/12	RSK-175/SOP325			
Ethane			ND		1.2					RSK-175/SOP325			
Ethene			ND	U	1.1	n	"	"	"	RSK-175/SOP325			
urrogate: Ace	tylene			111 %	66.4-153%		"	"	"				
Lab ID:	1202011-02							Wat	er - Sample	ed: 02/02/12 11:39			
Sample ID:	HW46								Dissolved	Gases by RSK-175			
Methane			1.5	B1, J	1.2	ug/L	B2B0015	02/03/12	02/06/12	RSK-175/SOP325			
Ethane			ND	U	1.2	n	n	"	"	RSK-175/SOP325			
Ethene			ND	U	1.1	n	n	"	"	RSK-175/SOP325			
Surrogate: Acetylene			110 %	66.4-153%		"	"	"					
Lab ID:	1202011-03							Wat	er - Sample	ed: 02/02/12 11:24			
Sample ID:	HW46-P									Gases by RSK-175			
Methane			1.5	B1, J	1.2	ug/L	B2B0015	02/03/12	02/06/12	RSK-175/SOP325			
Ethane			ND	U	1.2	"	"	"	"	RSK-175/SOP325			
Ethene			ND	U	1.1	"	"	"	"	RSK-175/SOP325			
Surrogate: Acei	tylene			113 %	66.4-153%		"	"	"				
Lab ID:	1202011-04							Water - Sampled: 02/02/12 07:50					
Sample ID:	TB15									Gases by RSK-175			
Methane			1.5		1.2	ug/L	B2B0015	02/03/12		RSK-175/SOP325			
Ethane			ND	U	1.2	n .	"	"	"	RSK-175/SOP325			
Ethene			ND	U	1.1	"	"	"	"	RSK-175/SOP325			
Surrogate: Acei	tylene			112 %	66.4-153%		"	"	"				
Lab ID:	1202011-05							Wat	er - Sample	ed: 02/01/12 14:45			
Sample ID:	FB08								Dissolved	Gases by RSK-175			
Methane			1.3	B1, J	1.2	ug/L	B2B0015	02/03/12	02/06/12	RSK-175/SOP325			
Ethane			ND	U	1.2	n	"	"	"	RSK-175/SOP325			
Ethene			ND	U	1.1	n	н	n	"	RSK-175/SOP325			
Surrogate: Ace	tylene			108 %	66.4-153%		"	"	"				
Lab ID:	1202011-06							Wat	er - Sample	ed: 02/01/12 15:47			
Sample ID:	HW34a								Dissolved	Gases by RSK-175			
Methane		RE2	26,000		240	ug/L	B2B0024	02/06/12		RSK-175/SOP325			
Ethane			55		1.2	"	B2B0015	02/03/12	02/06/12	RSK-175/SOP325			
Ethene			ND	U	1.1	"	n	n	"	RSK-175/SOP325			
Surrogate: Acei	tylene			113 %	66.4-153%		"	"	"				
Surrogate: Acei	hulana	RE2		118 %	66.4-153%		B2B0024	02/06/12	02/07/12				

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 100 Gypsum Road
 Reported:
 02/13/12 14:59

Project: Dimock Residential Groundwater Stroudsburg PA, 18360

Sample Results

Analyte		Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method		
Lab ID:	1202011-07							Water - Sampled: 02/01/12 15:55				
Sample ID:	HW34a-P									d Gases by RSK-175		
Methane		RE2	470		3.9	ug/L "	B2B0024	02/06/12	02/07/12	RSK-175/SOP325		
Ethane			1.6		1.2	"	B2B0015	02/03/12	02/06/12	RSK-175/SOP325		
Ethene			NI	U U	1.1	"	"	"	"	RSK-175/SOP325		
Surrogate: Acetylene			109 %	66.4-153%		"	"	"				
Surrogate: Acetylene RE2		RE2		120 %	66.4-153%		B2B0024	02/06/12	02/07/12			
Lab ID:	1202011-08							Water - Sampled: 02/01/12 10:10				
Sample ID:	TB14								Dissolve	d Gases by RSK-175		
Methane			1.4	. B1, J	1.2	ug/L	B2B0015	02/03/12	02/06/12	RSK-175/SOP325		
Ethane			NE	U	1.2	n	"	"	"	RSK-175/SOP325		
Ethene			NE	U	1.1	n	"	"	"	RSK-175/SOP325		
Surrogate: Ace	tylene			110 %	66.4-153%		"	"	"			
Lab ID: 1202011-09								Wat	er - Sampl	ed: 02/02/12 10:15		
Sample ID:	FB09								Dissolve	d Gases by RSK-175		
Methane			1.3	B1, J	1.2	ug/L	B2B0015	02/03/12		RSK-175/SOP325		
Ethane			NE	U	1.2	11	n	"	"	RSK-175/SOP325		
Ethene			NE	U	1.1	n	"	"	"	RSK-175/SOP325		
Surrogate: Acetylene			110 %	66.4-153%		"	"	"				
Lab ID:	1202011-10							Water - Sampled: 02/02/12 10:29				
Sample ID:	HW42z								Dissolve	d Gases by RSK-175		
Methane			18	B1, J	1.2	ug/L	B2B0015	02/03/12	02/06/12	RSK-175/SOP325		
Ethane			NE	U	1.2	n	"	"	"	RSK-175/SOP325		
Ethene			NE	U	1.1	n	"	"	"	RSK-175/SOP325		
Surrogate: Ace	tylene			115 %	66.4-153%		"	"	"			
Lab ID:	1202011-11							Wat	er - Sampl	ed: 02/02/12 07:57		
Sample ID:	TB16					a.	Danos:	02/02/12		d Gases by RSK-175		
Methane Ethane			6.2		1.2	ug/L "	B2B0015	02/03/12	02/07/12	RSK-175/SOP325 RSK-175/SOP325		
Ethene			NE NE		1.2	,,	"	,,	,,	RSK-175/SOP325		
Latence			INL	, 0	1.1					TWIX-173/BOF 343		
Surrogate: Ace	tylene			109 %	66.4-153%		"	"	"			

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B2B0015 - RSK175 - Dissolved HO	C Gases					D	-	red: 02/03/12 A	-	
Blank (B2B0015-BLK1)						Ь	issuived Gr	ises by RSR-17	5 - Quanty	Contro
Methane	0.7	C1, J	1.	.2 ug/L						
Ethane	ND	U	1.	.2 "						
Ethene	ND	U	1.	.1 "						
Surrogate: Acetylene		75.7		"	66.5		114	66.4-153		
LCS (B2B0015-BS1)										
Methane	37.7		1.	.2 ug/L	44.1		85	70-130		200
Ethane	74.4		1.	.2 "	83.2		89	77-137		200
Ethene	72		1.	.1 "	78.3		92	78-138		200
Surrogate: Acetylene		74.4		"	72.0		103	66.4-153		
Matrix Spike (B2B0015-MS1)		Source: 120	2011-07							
Methane	Not Reported	C2, Q10	1.	.2 ug/L	44.1	362	84	70-130		20
Ethane	78.6		1.	.2 "	83.2	1.58	93	70-130		20
Ethene	72.5		1.	.1 "	78.3	ND	93	70-130		20
Surrogate: Acetylene		68.9		"	72.0		96	66.4-153		
Matrix Spike Dup (B2B0015-MSD1)		Source: 120	2011-07							
Methane	Not Reported	C2, Q10	1.	.2 ug/L	44.1	362	NR	70-130	32	20
Ethane	78.5		1.	.2 "	83.2	1.58	92	70-130	0.2	20
Ethene	73.3		1.	.1 "	78.3	ND	94	70-130	1	20
Surrogate: Acetylene		71.2		"	72.0		99	66.4-153		
Batch B2B0024 - RSK175 - Dissolved HO					-	red: 02/06/12	-			
Blank (B2B0024-BLK1)						Ъ	issolved Ga	ses by RSK-17	5 - Quality	Contro
Methane	0.7	C1, J	1.	.2 ug/L						
Ethane	ND	U	1.	_						
Ethene	ND	U	1.							
Surrogate: Acetylene		72.2		"	66.5		109	66.4-153		
LCS (B2B0024-BS1)										
Methane	33.9		1.	.2 ug/L	44.1		77	70-130		200
Ethane	70		1.		83.2		84	77-137		200
Ethene	64.6		1.		78.3		83	78-138		200

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Qualifiers and Comments

Q10 The analyte concentration in the unfortified sample is significantly greater than the concentration spiked into the matrix spike and matrix spike duplicate. The reported spike recovery is not a meaningful measure of the dataset's analytical accuracy.

NR Not Reported

J The reported result for this analyte should be considered an estimated value.

C2 The reported concentration for this analyte is above the calibration range of the instrument.

C1 The reported concentration for this analyte is below the quantitation limit.

B1 The concentration of this analyte found in this sample was less than five times the concentration found in the associated method blank.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

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